

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 04-079880

(43)Date of publication of application : 13.03.1992

(51)Int.Cl.

C12N 1/21
C07K 13/00
C12N 15/28
C12P 21/02
// A61K 37/02
(C12N 1/21
C12R 1:19)
(C12P 21/02
C12R 1:19)

(21)Application number : 02-193935

(22)Date of filing : 24.07.1990

(71)Applicant : ISHIHARA SANGYO KAISHA LTD

(72)Inventor : YAMADA SHITSU
KATO MASAYA
MIYATA KEIZO
AOYAMA YOSHIYUKI
YUKI SHUNJI
SHIKAMA HIROSHI

(54) POLYPEPTIDE

(57)Abstract:

NEW MATERIAL: A polypeptide in which 68th proline of human TNF having the an amino acid sequence expressed by the formula is replaced by other amino acid.

USE: An antiulcer agent, etc.

PREPARATION: A recombinant microorganism cell transformed by a recombinant plasmid containing DNA coding a polypeptide having a sequence in which 68th proline in a human TNF protein is replaced by other amino acid is cultured in a culture medium and the aimed polypeptide having the amino acid sequence is produced and separated.

Ser Ser Ser Arg Thr Pro Ser Asp Leu Pro Val Ala His Val Val
1 3 10 15
Ala Asp Pro Glu Ala Glu Gly Glu Leu Glu Tyr Leu Asp Arg Arg
16 20 25 30
Ala Asp Ala Leu Leu Ala Asp Gly Val Glu Leu Arg Asp Asp Glu
31 35 40 45
Leu Val Val Pro Ser Glu Gly Asp Tyr Leu His Tyr Ser Glu Val
46 50 55 60
Leu Phe Lys Gly Glu Gly Phe Pro Ser Thr His Val Leu Leu Thr
61 65 70 75
His Thr His Ser Arg His Ala Val Ser Tyr Glu Thr Lys Val Asn
76 80 85 90
Leu Leu Ser Ala Gly Lys Ser Phe Asp Glu Arg Glu Thr Pro Glu
91 95 100 105
Gly Ala Glu Ala Tyr Pro Tyr Tyr Glu Pro His Tyr Leu Gly Gly
106 110 115 120
Val Phe Glu Lys Glu Lys Gly Asp Arg Leu Ser His Glu His Asp
121 125 130 135
Arg Pro Asp Tyr Leu Asp Phe Ala Lys Ser Gly Glu Val Tyr Phe
136 140 145 150
Gly His Lys Ala Leu
151 155

LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

Copyright (C); 1998,2000 Japan Patent Office